

ARIZONA DEPARTMENT OF WATER RESOURCES

500 North Third Street
Phoenix, Arizona 85004

WELL DRILLER REPORT

This report should be prepared by the driller in all detail and filed with the Department within 30 days following completion of the well.

1. Owner Name: BHP
Address: 14605 E. Hunt Hwy. Florence AZ 8680463
Street City State Zip
2. Driller Name: Stewart Brothers Drilling Co.
Address: PO Box 2067 Milano NM 87021
Street City State Zip
3. Location: 4 N/S 9 E/W S128 1/4 SE SE 1/4 NE 1/4 SE
Township Range Section 10-acre 40-acre 160-acre
4. Well Registration No. 55- 556091 (Required)
5. Permit No. _____ (If issued)

DESCRIPTION OF WELL

6. Total depth of hole 290 ft.
7. Type of casing PVC and LCS
8. Diameter and length of casing 6 in. from 280 to +2, in from _____ to _____
9. Method of sealing at reduction points _____
10. Perforated from _____ to _____, from _____ to _____ from _____ to _____
11. Size of cuts _____ Number of cuts per foot _____
12. If screen was installed: Length 40 ft. Diam 6 in. Type PVC, open slot, 1/8 in. 80
13. Method of construction drilled Mud Rotary
(drilled, dug, driven, bored, jetted, etc)
14. Date started April 27 1996
Month Day Year
15. Date completed April 30 1996
Month Day Year
16. Depth to water 160 ft. (If flowing well, so state)
17. Describe point from which depth measurements were made, and give sea-level elevation if available
2' above ground
18. If flowing well, state method of flow regulation: _____
19. Remarks: _____

DO NOT WRITE IN THIS SPACE
OFFICE RECORD

Registration No. 55-556091

File No. D(4-9)28 DEC DAD

Received By _____

Entered

ENTERED JUN 12 1996

LOG OF WELL

* Indicate depth at which water was first encountered, and the depth and thickness of water bearing beds. If water is artesian, indicate depth at which encountered, and depth to which it rose in well.

[illegible]

I hereby certify that this well was drilled by me(or under my supervision), and that each and all statements herein contained are true to the best of my knowledge and belief.

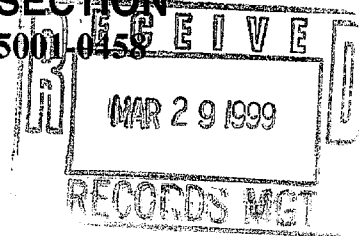
Driller Name: Stewart Brothers Drilling
Po Box 2067
 Street Milar NM 87021
 City State Zip Phone No.
Richard D Stewart
 Signature of Driller Date

m32-43f

ARIZONA DEPARTMENT OF WATER RESOURCES GROUNDWATER MANAGEMENT SUPPORT SECTION

MAIL TO: P. O. BOX 458 - PHOENIX ARIZONA 85001-0458

Phone (602) 417-2470



COMPLETION REPORT

(Pump Installation Report)

1. Per A.R.S. § 45-6000, the Completion Report is to be filed with the Department within 30 days after installation of pump equipment by the registered well owner.
2. Drawdown of the water level for a non-flowing well should be measured in feet after not less than 4 hours of continuous operations. For a flowing well the shut-in pressure should be measured in feet above the land surface or in pounds per square inch at the land surface.
3. The static groundwater level should be measured in feet from the land surface immediately prior to the capacity test.
4. The tested pumping capacity of the well in gallons per minute for a non-flowing well should be determined by measuring the discharge of the pump after continuous operation for at least 4 hours and for a flowing well be measuring the natural flow at the land surface.

REGISTRATION NO: 55- 556091

FILE NO: 0(4-9) 28 DAO

LOCATION OF THE WELL:

Township 4 N(S) Range 9 (EW) Section 28 $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$ SE
10-acre 40-acre 160-acre

EQUIPMENT INSTALLED:

Kind of pump Stainless Steel Submersible Kind of power Electric
Turbine, Submersible, Centrifugal, etc. Electric, natural gas, gasoline, etc.
H.P. Rating of Motor 1 1/2 Pumping Capacity 10 gpm Date Pump Installed 5-16-96

WELL TEST:

Test pumping capacity 10 Gallons per minute Date Well Tested 5-16-96
Method of Discharge Measurement 5 Gallon Bucket & Stopwatch
Weir, orifice, current meter, etc.
Static Groundwater Level 140.15 ft. Drawdown 1.3 ft.
Total Pumping Lift _____ ft. Drawdown _____ lbs
(Flowing Well)

I HEREBY CERTIFY that the above statements are true to the best of my knowledge and belief.

Print Well Owner's Name BHP Copper Address _____ City _____ State _____ Zip _____
Florence Project
Signature of Well Owner 14605 East Hunt Highway Phone Number _____
Florence, AZ 85232 Date 3/26/99

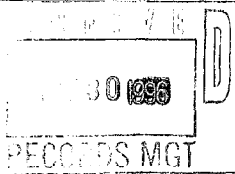
DWR 55-56 (Rev 6/98)

868-5090
868-5090

Arilla Hoag, Senior Geologist Mailed
3/26/99

ANSWERED MAR 30 1999

ARIZONA DEPARTMENT OF WATER RESOURCES
GROUNDWATER MANAGEMENT SUPPORT SECTION
500 North Third Street
Phoenix, Arizona 85004-3903



THIS AUTHORIZATION SHALL BE IN POSSESSION OF THE DRILLER DURING ALL DRILL OPERATIONS

WELL REGISTRATION NO: 55-556091

AUTHORIZED DRILLER: STEWART BROTHERS DRILLING CO.

LICENSE NO: 314

NOTICE OF INTENTION TO DRILL A MONITOR WELL HAS BEEN FILED WITH THE DEPARTMENT BY:

CONSULTANT: BROWN & CALDWELL

WELL OWNER: BHP

The well(s) is/are to be located in the:

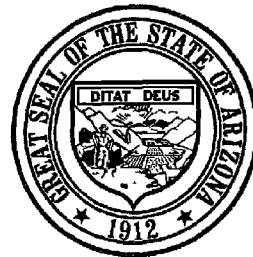
SE 1/4 of the SW 1/4 of the NW 1/4 Section 28 Township 4 SOUTH Range 9 EAST

No. of wells in this project: 1

THIS AUTHORIZATION EXPIRES AT MIDNIGHT ON THE 1ST DAY OF APRIL, 1997.


CHIEF, GROUNDWATER MANAGEMENT SUPPORT

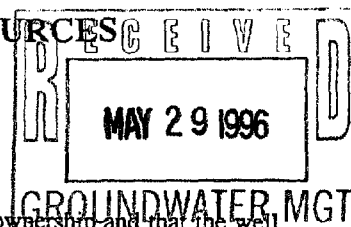
THE DRILLER MUST FILE A LOG OF THE WELL
WITHIN 30 DAYS OF COMPLETION OF DRILLING



ARIZONA DEPARTMENT OF WATER RESOURCES

OPERATIONS DIVISION

15 South 15th Avenue
Phoenix, Arizona 85007
(602) 542-1581



NOTE: A.R.S. §45-593.C. requires that the Department be notified of change of well ownership and that the well owner is required to keep the Department's Well Registration records current and accurate. Well data and ownership changes must be submitted within thirty (30) days after changes take place. Therefore, this form may be completed in full by either the previous or new owner.

SAVE THIS FORM TO REPORT FUTURE CHANGES IN OWNERSHIP, CHANGES IN ADDRESS, OR CHANGE IN WELL DATA SUCH AS PUMP CAPACITY, CORRECTION OF LEGAL DESCRIPTION, CHANGE OF WELL DRILLER AND AMENDING INFORMATION PREVIOUSLY FILED.

CHANGE OF WELL INFORMATION

Well Registration No. 55- 556091 File No. D(4-9)286cd (If known)

I/We request the following well information be changed: Well location: SE 1/4 of the NE 1/4 of the SE 1/4 of Section 28, Township 4S, Range 9E (D(4-9)28dad)

ENTERED JUN 10 1996

Date: 5/23/96

Signature of Current Well Owner

BHP

STATEMENT OF CHANGE OF WELL OWNERSHIP

I, _____, state that I am (no longer) the (new) owner of the well described below:

_____ 1/4 _____ 1/4 _____ 1/4; Section _____ Township _____ Range _____
10 acre 40 acre 160 acre

Well Registration No. 55- _____ File No. _____ (If known)

PRINT Previous Owner's Name

PRINT New Owner's Name

Mailing Address

Mailing Address

City State Zip

City State Zip

Telephone

Telephone

Dated _____ Signature Previous/New Owner _____
DWR-55-71-6/93(Rev)

ARIZONA DEPARTMENT OF WATER RESOURCES

Operations Division, 500 North Third Street
Phoenix, Arizona 85004 Telephone (602) 417-2470

3. REQUEST TO CHANGE WELL DRILLER \$10.00 FEE REQUIRED FOR EACH WELL

This request must be received by this Department and the Drill Card issued to the new drilling firm PRIOR to the drilling or completion of any well.

Well Registration No. 55-_____ File No. _____

Original Well Driller

New Well Driller

Mailing Address

Mailing Address

ADWR License Number

ADWR License Number

R.O.C. License Number

R.O.C. License Number

Typed or Printed Name of Well Owner

Signature of Well Owner

Date

The fee charge for well ownership and reissue of drill card is authorized by R12-15-151, effective June 30, 1994.

DWR-55-71-8/94(Rev)

MONITOR/PIEZOMETER WELL

FILING FEE \$10.00

ARIZONA DEPARTMENT OF WATER RESOURCES

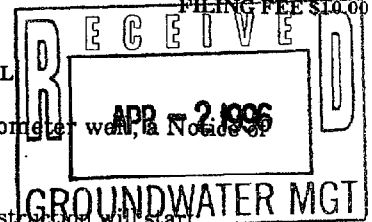
Operations Division
15 SOUTH 15TH AVENUE
PHOENIX, ARIZONA 85007

Cubf
MONITOR/PIEZOMETER WELL

FILING FEE \$10.00

NOTICE OF INTENTION TO DRILL MONITOR/PIEZOMETER WELL

Section § 45-596, Arizona Revised Statutes provide: Prior to drilling a monitor or piezometer well, a Notice of Intention to Drill shall be filed with the Department.



- WELL LOCATION:**

4	NS	9	E/W	28
Township		Range		Section
SE 1/4		NE 1/4		SW 1/4
10 ACRE		40 ACRE		160 ACRE
- Position location of the well on the land:
Latitude 33 0 3 ' 16 "
Longitude 111 0 26 ' 05 "
- County: Pinal
- Owner of the land of wellsite:**
BHP
Name _____
14605 E. Hunt Highway
Address _____
Florence, AZ 85232
City _____ State _____ Zip _____
- Lessee of the land of wellsite:**
N/A
Name _____
Address _____
City _____ State _____ Zip _____
- Owner of well:**
BHP
Name _____
14605 E. Hunt Highway
Address _____
Florence, AZ 85232
City _____ State _____ Zip _____
- Consulting Firm: Brown & Caldwell
Contact Person: M. Glotfelty
Phone: (602) 222-4444
- Purpose of well drilled pursuant to this notice
Monitor X
Piezometer _____
- If for deepening or modifying, Well Registration Number
55-
- Construction will start
April 17 1996
Month _____ Day _____ Year _____
- Period well will remain in use 10 Months/Years
- For monitoring wells, is pump equipment to be installed?
Yes X No _____
- If yes, design pump capacity 10 gpm
(b) What use will be made of the water sampling only
- Drilling firm:**
Stewart Bros. Drilling Co.
Name 306 Airport Road
P. O. Box 2067
Address _____
Milan NM 87021
City _____ State _____ Zip _____
DWR License No. 314
A-04
ROC License classification _____
- Is the proposed wellsite within 100 feet of a septic tank system, sewage disposal area, landfill, hazardous waste facility, storage area of hazardous material or petroleum storage areas and tanks?
Yes _____ No X
- Proposed method of abandonment of well after project is completed: in accordance with ADWR rule R12-15-816
- Is this well to monitor existing contamination? _____ Potential contamination X Please explain: point of compliance monitor well for APP

**DO NOT WRITE IN THIS SPACE
OFFICE RECORD**

File No. D(4-9)28 DAD

Filed 4/2/96 By dh

Input ENTERED MAY 1 1996

DUPLICATE

Mailed 4/24/96 By dh

Registration 55- 556091

AMATINA PINAL

W/S 48 S/B 11

GENERAL INSTRUCTIONS

- Fill out this form in **DUPLICATE** and send **WITH \$10.00 FEE** to 15 South 15th Avenue, Phoenix, AZ 85007.
- For specific instructions, limitations and conditions, see the reverse side of this form.
- Must be signed by land owner or lessee.**
- Section §45-596(D), provides that the Director shall determine that all information required on form has been submitted. If not, the person filing will be notified and the drilling, deepening, or modification of the well may not proceed.

I state that Notice is filed in compliance with Section § 45-596 and is complete and correct to the best of my knowledge and belief and that I understand the conditions set forth on the reverse side of this form.

John T. Kline
Typed or Printed Name

John T. Kline
Signature [X] Land Owner [] Lessee of wellsite

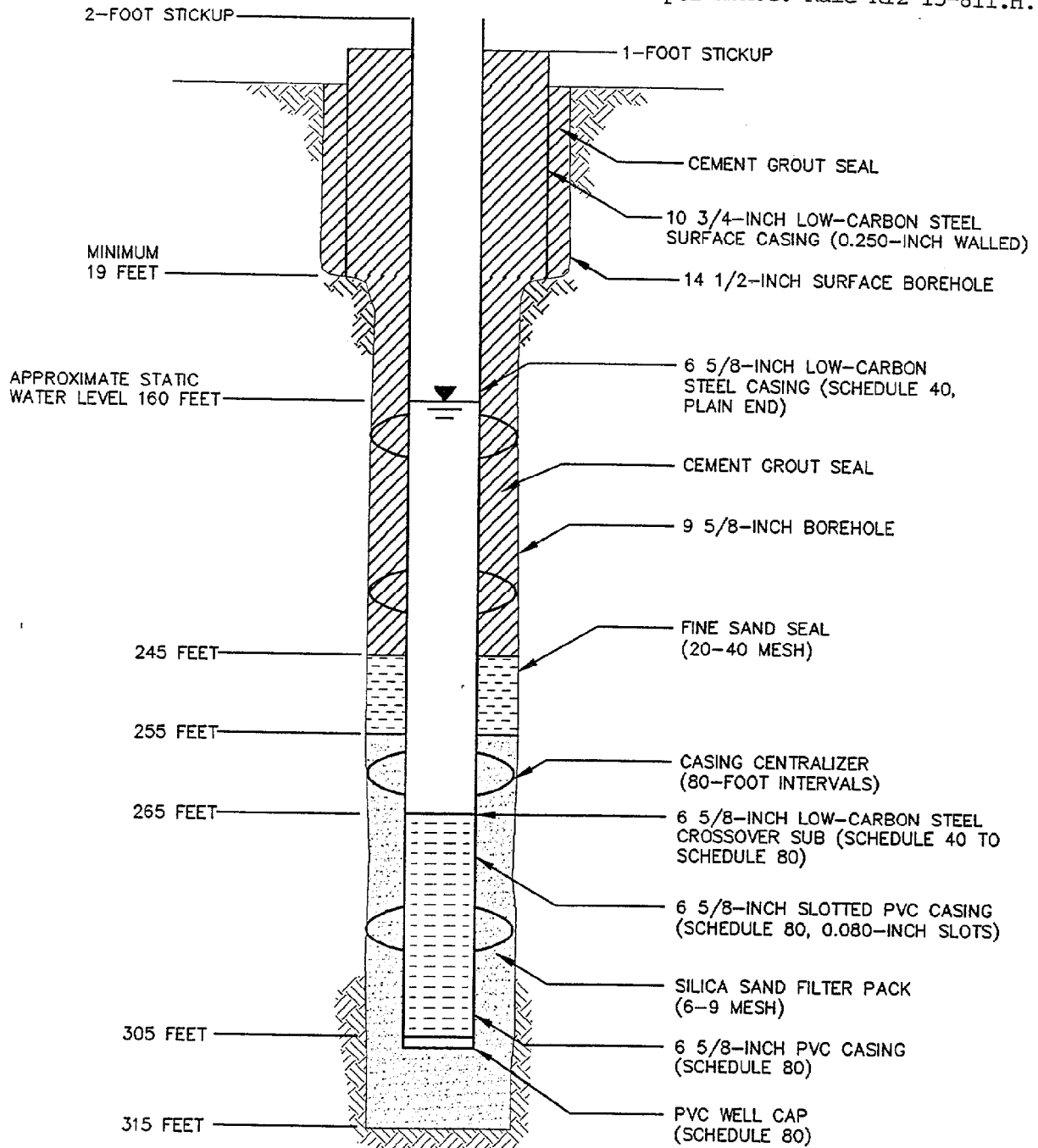
3/19/96
Date

18. If construction plans have been coordinated with Arizona Department of Environmental Quality, who is the agency contact? NA
- If construction plans have been coordinated with Arizona Department of Water Resources, who is the agency contact? NA
19. WELL CONSTRUCTION PLAN
- a) Drilling method (mud rotary, hollow-stem auger, etc.) Mud Rotary
- b) Borehole diameters: 14 1/2 inches from 0 feet to 19 feet.
9 5/8 inches from 19 feet to 315 feet.
- c) Casing materials (PVC, steel, hollow-stem auger, etc.)
 material LCS diameter 10 3/4 inches from -1 feet to 19 feet
 material LCS diameter 6 5/8 inches from -2 feet to 265 feet
- d) Method of sealing at reductions No reductions
- e) Annular seal materials (cement, grout, etc.); method of placement (tremied, circulated)
 material Cement Grout method tremie from 0 feet to 245 feet
 material Fine Sand method tremie from 245 feet to 255 feet
- f) Filter packs (state material):
 material Colorado Silica Sand from 255 feet to 315 feet
 material _____ from _____ feet to _____ feet
- g) Perforations or screen specifications:
 type PVC .080-inch slots from 265 feet to 305 feet
 type _____ from _____ feet to _____ feet
- h) Method of well development (bail, air lift, surge)* Air Lift
- i) Will surface or conductor casing extend above grade: Yes x No _____
20. Include detailed construction diagram showing expected water depth in feet below land surface, and details of vault, if specified.

CONDITIONS

- I. Construction and abandonment standards for all wells shall be in accordance with A.A.C. R12-15-811 and R12-15-816.
- II. Drilling of the well shall be completed within one (1) year after the date of Notice.
- III. A Well Driller Report, is required within 30 days of completion of drilling. A Completion Report, is required to be filed with the Department within 30 days after installation of pump equipment for monitor wells.
- IV. Pump equipment may not be installed on a well drilled for piezometer purposes. If a monitor well is pumped, pumping is limited to the maximum amount required for monitor purposes, but in no case may exceed 35 gallons per minute and an annual volume of 10 acre feet total.
- V. A.A.C. Rule R12-15-811.H.2, requires that: "A monitor well shall be identified as such on the vault cover or at the top of the steel casing. Identification information will include well registration number."
- VI. Special construction standards required pursuant to A.A.C. Rule R12-15-821: _____

Note: Submersible pump enclosed in a locked vault ^{above grade} to be included per A.A.C. Rule R12-15-811.H.2



NOTES:

NOT TO SCALE

1. PVC = POLYVINYL CHLORIDE
2. ALL DIAMETERS ARE O.D.
3. DEPTHS ARE PRELIMINARY AND WILL BE BASED ON LOCAL GEOLOGY AND WILL BE DETERMINED BY THE CONSULTANT.

BROWN AND CALDWELL

Cubf
**MONITOR WELL
DESIGN**

BHP

Florence, Arizona

ARIZONA DEPARTMENT OF WATER RESOURCES

500 North Third Street, Phoenix, Arizona 85004

Telephone (602) 417-2470

Fax (602) 417-2422



FIFE SYMINGTON
Governor

RITA P. PEARSON
Director

April 24, 1996

BHP
14605 E. Hunt Highway
Florence, AZ 85232

RE: Registration No. 55-556090 thru 55-556094
File No. Various

Dear Well Owner:

Enclosed for your records is an annotated copy of the Notice of Intention to Drill a well. This is returned to you as evidence of compliance with A.R.S. §45-596. A drilling card has been mailed to your designated driller. Prior to drilling he must have it in his possession.

Since this well is being drilled as a Monitor well, or for Cathodic Protection, Grounding, Geotechnical or Piezometer purposes, our standard driller report form is also being furnished to the driller. He is required to complete it and return it to the Department within 30 days after the completion of the well. A Completion Report form is being furnished for monitor wells where pump installation is authorized. This must be completed within thirty days of installation as required by A.R.S. §45-600.

A Change of Well Information form is enclosed for your future use. If you deem it necessary to change the location of the proposed well, please notify the Department on the enclosed form. A properly amended Drilling Card will then be issued and must be in possession of the driller before drilling begins. During the drilling of a new well, if it is determined that it must be abandoned, then a Well Abandonment Completion Report must be submitted per R12-15-816.F.

Per A.R.S. §45-593, the person to whom a well is registered shall notify this Department of a change of ownership of the well and/or information pertaining to the physical characteristics of the well, in order to keep the well registration file current and accurate.

Sincerely,

A handwritten signature in cursive script that reads "Dorothy Boggs".

Dorothy Boggs
Groundwater Permit Specialist

ARIZONA DEPARTMENT OF WATER RESOURCES
GROUNDWATER MANAGEMENT SUPPORT SECTION
500 North Third Street
Phoenix, Arizona 85004-3903

THIS AUTHORIZATION SHALL BE IN POSSESSION OF THE DRILLER DURING ALL DRILL OPERATIONS

WELL REGISTRATION NO: 55-556091

AUTHORIZED DRILLER: STEWART BROTHERS DRILLING CO.

LICENSE NO: 314

NOTICE OF INTENTION TO DRILL A MONITOR WELL HAS BEEN FILED WITH THE DEPARTMENT BY:

CONSULTANT: BROWN & CALDWELL


WELL OWNER: BHP

The well(s) is/are to be located in the:

SE 1/4 of the SW 1/4 of the NW 1/4 Section 28 Township 4 SOUTH Range 9 EAST

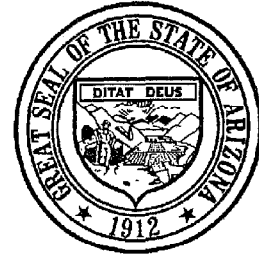
No. of wells in this project: 1

THIS AUTHORIZATION EXPIRES AT MIDNIGHT ON THE 1ST DAY OF APRIL, 1997.



CHIEF, GROUNDWATER MANAGEMENT SUPPORT

THE DRILLER MUST FILE A LOG OF THE WELL
WITHIN 30 DAYS OF COMPLETION OF DRILLING



ARIZONA DEPARTMENT OF WATER RESOURCES
GROUNDWATER MANAGEMENT SUPPORT SECTION
500 North Third Street
Phoenix, Arizona 85004-3903

REISSUE

THIS AUTHORIZATION SHALL BE IN POSSESSION OF THE DRILLER DURING ALL DRILL OPERATIONS

WELL REGISTRATION NO: 55-556091

AUTHORIZED DRILLER: STEWART BROTHERS DRILLING COMPANY

LICENSE NO: 314

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CONSULTANT: BROWN & CALDWELL

WELL OWNER: BHP

The well(s) is/are to be located in the:

SE 1/4 of the NE 1/4 of the SE 1/4 Section 28 Township 4 SOUTH Range 9 EAST

No. of wells in this project: 1

THIS AUTHORIZATION EXPIRES AT MIDNIGHT ON THE 1ST DAY OF APRIL, 1997.



CHIEF, GROUNDWATER MANAGEMENT SUPPORT

THE DRILLER MUST FILE A LOG OF THE WELL
WITHIN 30 DAYS OF COMPLETION OF DRILLING

